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FILE 'USPAT' ENTERED AT 08:45:23 ON 26 MAY 94
                 WELCOME
                                 T O
                                       THE
                   PATENT
                                 TEXT
                                          FILE
           U.S.
                   => e jutila/in
E1
            1
                  JUTERBOCK, KARSTEN/IN
E2
             1
                  JUTIER, PIERRE/IN
E3
            0 --> JUTILA/IN
                  JUTILA, PENTTI K/IN
E4
            1
E5
            1
                  JUTILA, RAYMOND E/IN
E6
            2
                  JUTILA, RAYMOND EINO/IN
E7
            1
                  JUTKEVICH, VALERY I/IN
                  JUTKEVICH, VALERY IVANOVICH/IN
E8
            1
E9
                  JUTO, YASURO/IN
            1
                  JUTRAS, GILLES/IN
E10
             1
E11
                  JUTRAS, MARIO/IN
             1
                  JUTRAS, MARTIAL/IN
E12
             1
=> s lam(w)1 or lecam(w)1 or l(w)selectin
           605 LAM
       1802011 1
                                       11 LAM(W)1
            6 LECAM
       1802011 1
                         1 LECAM(W)1
        396493 L
            24 SELECTIN
            1 L(W) SELECTIN
L1
            11 LAM(W) 1 OR LECAM(W) 1 OR L(W) SELECTIN
=> s elam or elam(w)1 or e(w)selectin
                                             85 ELAM
            85 ELAM
       1802011 1
            18 ELAM(W)1
       1034832 E
            24 SELECTIN
            2 E(W) SELECTIN
L2
           85 ELAM OR ELAM(W) 1 OR E(W) SELECTIN
=> s 11 and 12
            5 L1 AND L2
L3
=> d 13 1-5
    5,304,640, Apr. 19, 1994, DNA sequence encoding a selectin
Laurence A. Lasky, et al., 536/23.5; 435/69.1, 172.3, 240.2, 320.1
[ IMAGE
AVAILABLE]
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- 2. 5,252,602, Oct. 12, 1993, Effects of misoprostol on allergic responses; Rafeul Alam, et al., 514/530, 573, 826 [IMAGE AVAILABLE]
- 3. 5,227,369, Jul. 13, 1993, Compositions and methods for inhibiting leukocyte adhesion to CNS myelin; Steven Rosen, et al., 514/23, 2, 3, 4, 8, 885, 903 [IMAGE AVAILABLE]
- 5,198,424, Mar. 30, 1993, Functionally active selectin-derived peptides; Rodger P. McEver, 514/13; 424/1.37, 1.69; 427/2; 514/12, 14,
 16; 530/324, 325, 326, 327; 623/11 [IMAGE AVAILABLE]
- 5. 5,151,360, Sep. 29, 1992, Effect of N,N,N-trimethylsphingosine on protein kinase-C activity, melanoma cell growth in vitro, metastatic potential in vivo and human platelet aggregation; Kazuko Handa, et al., 435/240.2, 240.1 [IMAGE AVAILABLE]
- => s 13 and common(w)epitope
 472958 COMMON
 1273 EPITOPE
 62 COMMON(W)EPITOPE
 L4 0 L3 AND COMMON(W)EPITOPE
- => s 13 and scr 10597 SCR L5 1 L3 AND SCR
- => d 15 1
- 1. 5,304,640, Apr. 19, 1994, DNA sequence encoding a selectin ligand; Laurence A. Lasky, et al., 536/23.5; 435/69.1, 172.3, 240.2, 320.1 [IMAGE AVAILABLE]

FILE 'USPAT' ENTERED AT 08:45:23 ON 26 MAY 94 * WELCOME ОТ THE TEXT PATENT FILE => e jutila/in **E1** 1 JUTERBOCK, KARSTEN/IN **E2** 1 JUTIER, PIERRE/IN **E3** O --> JUTILA/IN JUTILA, PENTTI K/IN E4 1 JUTILA, RAYMOND E/IN E5 1 **E6** 2 JUTILA, RAYMOND EINO/IN E7 1 JUTKEVICH, VALERY I/IN JUTKEVICH, VALERY IVANOVICH/IN E8 1 E9 1 JUTO, YASURO/IN JUTRAS, GILLES/IN E10 1 E11 JUTRAS, MARIO/IN 1 1 JUTRAS, MARTIAL/IN E12 => s lam(w)1 or lecam(w)1 or l(w)selectin 605 LAM 1802011 1 11 LAM(W) 1 6 LECAM 1802011 1 1 LECAM(W) 1 396493 L 24 SELECTIN 1 L(W) SELECTIN L1 11 LAM(W) 1 OR LECAM(W) 1 OR L(W) SELECTIN => s elam or elam(w)1 or e(w)selectin 85 ELAM 85 ELAM 1802011 1 18 ELAM(W)1 1034832 E 24 SELECTIN 2 E(W) SELECTIN L2 85 ELAM OR ELAM(W) 1 OR E(W) SELECTIN => s 11 and 12 5 L1 AND L2 => d 13 1-5 5,304,640, Apr. 19, 1994, DNA sequence encoding a selectin Laurence A. Lasky, et al., 536/23.5; 435/69.1, 172.3, 240.2, 320.1 [IMAGE AVAILABLE]

- 2. 5,252,602, Oct. 12, 1993, Effects of misoprostol on allergic responses; Rafeul Alam, et al., 514/530, 573, 826 [IMAGE AVAILABLE]
- 3. 5,227,369, Jul. 13, 1993, Compositions and methods for inhibiting leukocyte adhesion to CNS myelin; Steven Rosen, et al., 514/23, 2, 3, 4, 8, 885, 903 [IMAGE AVAILABLE]
- 4. 5,198,424, Mar. 30, 1993, Functionally active selectin-derived
 peptides; Rodger P. McEver, 514/13; 424/1.37, 1.69; 427/2; 514/12,
 14,
 15, 16; 530/324, 325, 326, 327; 623/11 [IMAGE AVAILABLE]
- 5. 5,151,360, Sep. 29, 1992, Effect of N,N,N-trimethylsphingosine on protein kinase-C activity, melanoma cell growth in vitro, metastatic potential in vivo and human platelet aggregation; Kazuko Handa, et al., 435/240.2, 240.1 [IMAGE AVAILABLE]
- => s 13 and common(w)epitope
 472958 COMMON
 1273 EPITOPE
 62 COMMON(W)EPITOPE
 L4 0 L3 AND COMMON(W)EPITOPE
- => s 13 and scr 10597 SCR L5 1 L3 AND SCR
- => d 15 1
- 1. 5,304,640, Apr. 19, 1994, DNA sequence encoding a selectin
 ligand;
 Laurence A. Lasky, et al., 536/23.5; 435/69.1, 172.3, 240.2, 320.1
 [IMAGE
 AVAILABLE]

19863 EL 4345 246 4 EL(W)246

?^0

...completed examining records

S2 2 RD S1 (unique items)

?^Q

2/7/1 (Item 1 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
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9535279 BIOSIS Number: 94040279

CHARACTERIZATION OF A FUNCTIONALLY IMPORTANT AND EVOLUTIONARILY WELL-CONSERVED EPITOPE MAPPED TO THE SHORT CONSENSUS REPEATS OF E SELECTIN

AND L SELECTIN

S1

JUTILA M A; WATTS G; WALCHECK B; KANSAS G S

VETERINARY MOLECUALR BIOLOGY, MONTANA STATE UNIVERSITY, BOZEMAN, MT

59717.

J EXP MED 175 (6). 1992. 1565-1573. CODEN: JEMEA Full Journal Title: Journal of Experimental Medicine

Language: ENGLISH

Selectins reperesent a new family of adhesion molecules, expressed by

leukocytes and endothelial cells, that are involved in the regulation of

leukocyte traffic. Here we have characterized a new monoclonal antibody

(mAb) (EL-246) that recognizes both human leukocyte L-selectin (previously

called LAM-1, LECAM-1, or gp90MEL-14) and endothelial cell E-selectin

(previously called ELAM-1). EL-246 recognized a 110-kD protein expressed on

cells transfected with E-selectin cDNA and stained many postcapillary

venules in inflamed human tonsil. EL-246 also stained human peripheral

blood leukocytes and showed identity with anti-L-selectin mAb in two-color

flow cytometric analysis. The expression of the leukocyte EL-246 antigen

was regulated in the same manner as L-selectin and EL-246 recognized

anti-L-selectin mAb affinity-purified antigen in SDA/PAGE
Western blot

analysis. Further, L-selectin cDNA transfectants were specifically stained

by EL-246. EL-246 blocked >95% of lymphocyte adhesion to peripheral lymph

node high endothelial venules and >90% of neutrophil adhesion to

E-selectin addition to the EL-246 epitope being transfectants. In expressed on two different human selectins, it was detected on L-selectin from a variety of different animals. Interestingly domain mapping studies localized the epitope to the short consensus repeat (SCR) domains of EL-246 L-selectin. first recognizes different EL-246 is the mAb that two selectins and potentially defines a functional epitope encoded by the SCR domains. Inhibitors of selectin function targeted to this region would be expected have the added advantage of simultaneously blocking the activity of two distinct of adhesion protein involved in inflammation.

2/7/2 (Item 1 from file: 72)
DIALOG(R)File 72:EMBASE
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9171016 EMBASE No: 94118088

Survival in lung reperfusion injury is improved by an antibody that binds

and inhibits L- and E-selectin

Steinberg J.B.; Mao H.-Z.; Niles S.D.; Jutila M.A.; Kapelanski D.P.

Division of Cardiothoracic Surgery, UCSD Medical Center, 225 Dickinson

St., San Diego, CA 92103-8892 USA

J. HEART LUNG TRANSPLANT. (USA) , 1994, 13/2 (306-318) CODEN: JHLTE

ISSN: 1053-2498

LANGUAGES: English SUMMARY LANGUAGES: English

The selectins are a three-member family of leukocyte, platelet, and

endothelial cell adhesion proteins that mediate leukocyte
traffic into

normal and inflamed tissues. P-selectin is expressed by endothelial cells

and platelets, E-selectin by endothelial cells, and L-selectin by

circulating leukocytes. To determine if selectin-mediated leukocyte

adhesion influences the development of lung reperfusion injury, we studied

hemodynamics and respiratory and inert gas exchange in sheep subjected to

3-hour in situ left lung ischemia followed by 6-hour left lung reperfusion

with the right lung excluded. Ten minutes before reperfusion, eight

animals received EL-246 (1 mg/kg intravenously), a novel antihuman selectin antibody that recognizes and blocks both L- and E-selectin and cross-reacts animals with ischemia received no Eight control sheep. treatment, whereas three received an isotype-matched antihuman L-selectin antibody cross-react in sheep that does not (DREG-56, 1 intravenously). Eight sham control sheep underwent an identical operative procedure but were never subjected to ischemia. Volume-cycled, pressure-limited (20 cm H2O) consistent in mechanical ventilation was all animals throughout the experiment. Six-hour survival in EL-246 recipients (100%) was significantly higher than in either ischemic control sheep (37.5%) or DREG-56 recipients gravimetric lung water was equivalent in EL-246 (33.3%), but recipients (5.9 plus or minus 1.7 ml/kg), ischemic control sheep (8.3 plus or minus 3.0 ml/kg), and DREG-56 recipients (9.1 plus or minus 2.6 ml/kg). Although inert gas shunt at one-half hour of reperfusion was no different when contrasted in EL- 246 recipients (15% plus or minus 8%), ischemic control sheep (30% plus or minus 25%), and DREG-56 recipients (35% plus or minus 21%), shunts in EL-246 recipients resolved (4% plus or minus 4%) within the 6-hour study period and were associated with a concomitant improvement in respiratory gas exchange. Peripheral blood neutrophil counts increased and DREG-56 administration, after both EL-246 suggesting that beneficial effect of EL-246 was not incurred by leukocyte depletion. We conclude that mechanisms other than activated neutrophils may account for initial deterioration of respiratory gas exchange in lung reperfusion injury and inhibition of selectin function improves survival by preventing leukocyte-mediated amplification of this early process. ?